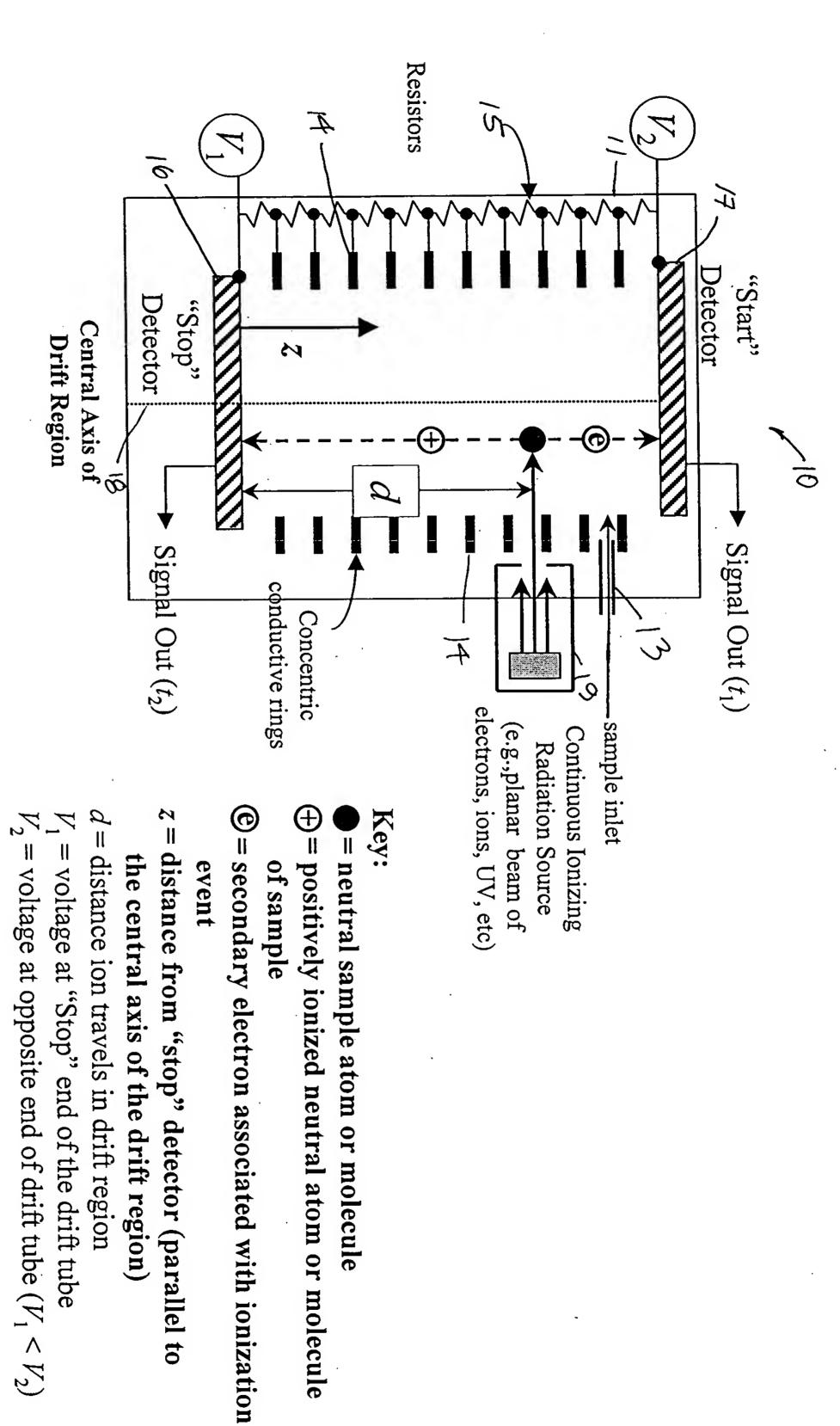
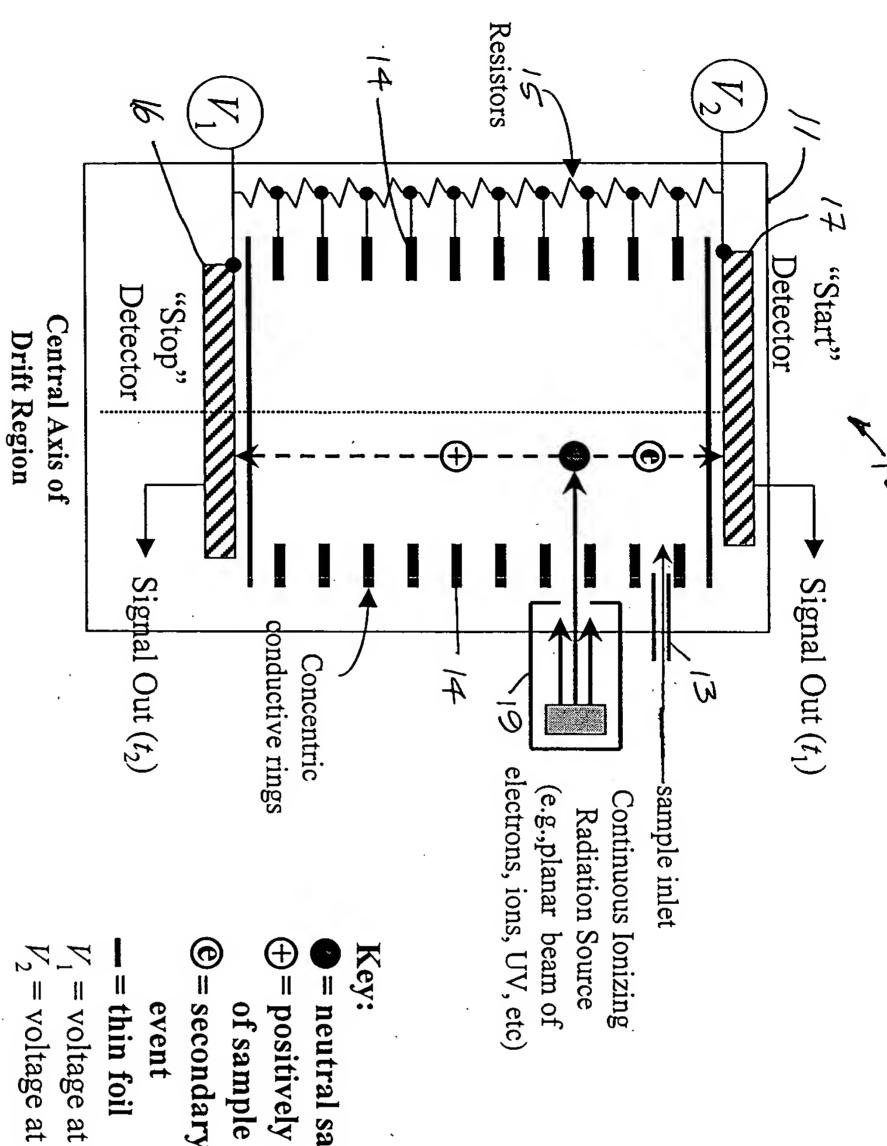


neutral sample atom or molecule
 positively ionized neutral atom or molecule of sample
 secondary electron associated with ionization event
 distance from "stop" detector (parallel to



J. 2

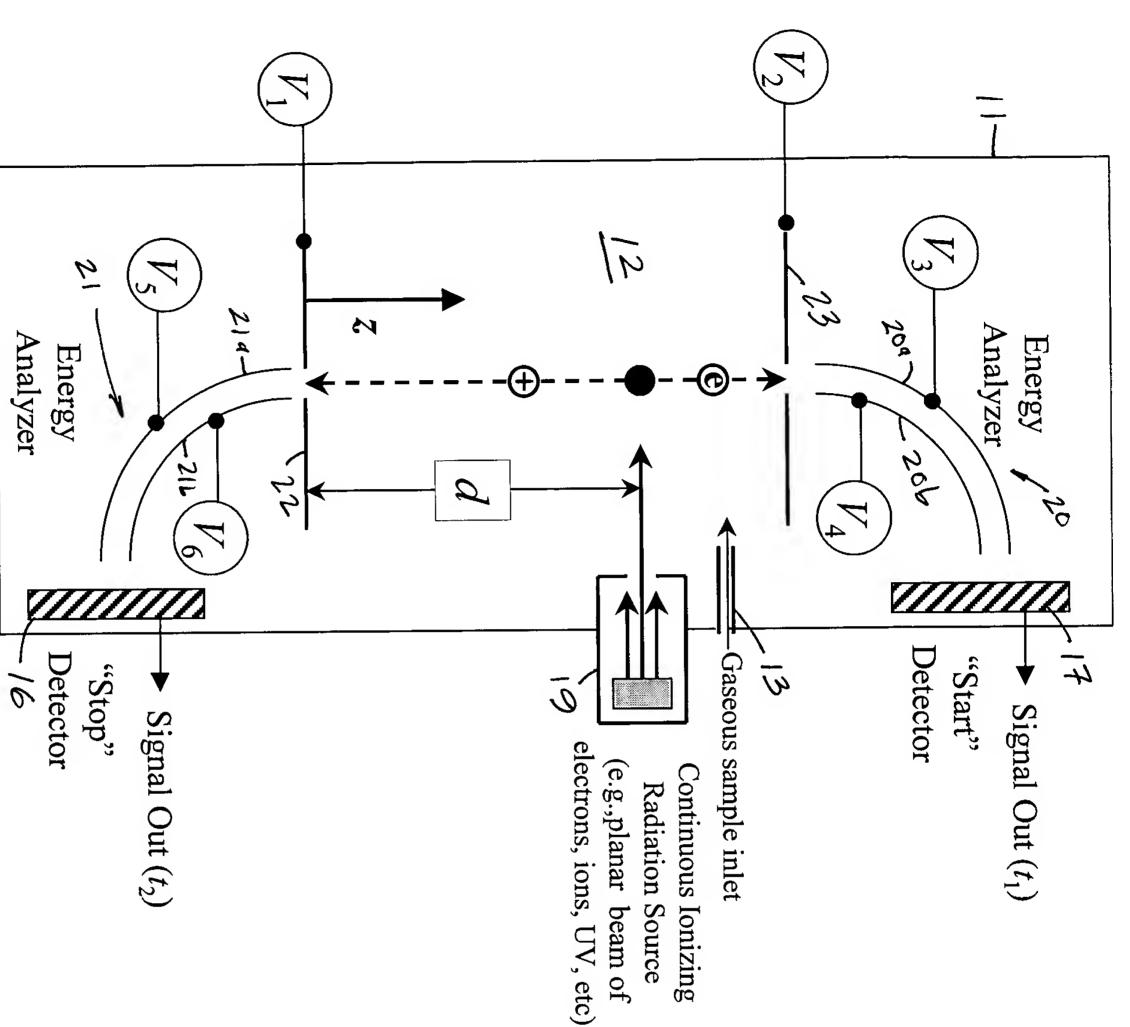


= neutral sample atom or molecule

— positively ionized neutral atom or molecule

@= secondary electron associated with ionization

= voltage at opposite end of drift tube $(V_1 < V_2)$ = voltage at "Stop" end of the drift tube



) (

■= neutral sample atom or molecule
⊕= positively ionized neutral atom or molecule of sample
©= secondary electron associated with ionization event
z = distance from "stop" detector (parallel to the central axis of the drift region)
d = distance ion travels in drift region
V₁ = voltage at "Stop" end of the drift tube
V₂ = voltage at opposite end of drift tube (V₁ < V₂)
V₃, V₄ = Electrostatic energy analyzer voltages

FIG. 4